

Diaphragm valve T4 with pneumatic actuating drive



Symbol photo



Symbol photo

General:

- Material: PVC-U, PP, PVDF
- Seal material: EPDM, FPM
PTFE / EPDM
- Dimensions: DN15 – DN50
d20 – d63
1/2" – 2"

Connector types:

- Solvent socket PVC: DIN / ISO / ASTM / JIS
- Solvent spigot PVC: DIN
- Fusion spigot PP / PVDF: DIN
- Fusion socket PP / PVDF / PE: DIN
- Backing flange PVC / PP-GFK: DIN / ANSI
- Fix flange PVC / PP: DIN / ANSI / JIS / BS
- Fix flange PP / PVDF: DIN / ANSI / JIS / BS

Operating pressure: PN10

Control functions:

- NC – Normally closed
- NO – Normally open
- DA – Double acting

Features pneumatic actuating drive:

Body material: PA-GF
Control air socket: Stainless steel
Control air: Neutral gases / air
Installation position: Any, preferred
drive facing upwards

Technical features:

- Rapid opening and closing
- High flow rate
- Visual position indication
- NAMUR connector for solenoid valve (K122 and K123 with adapter plate)

Accessories:

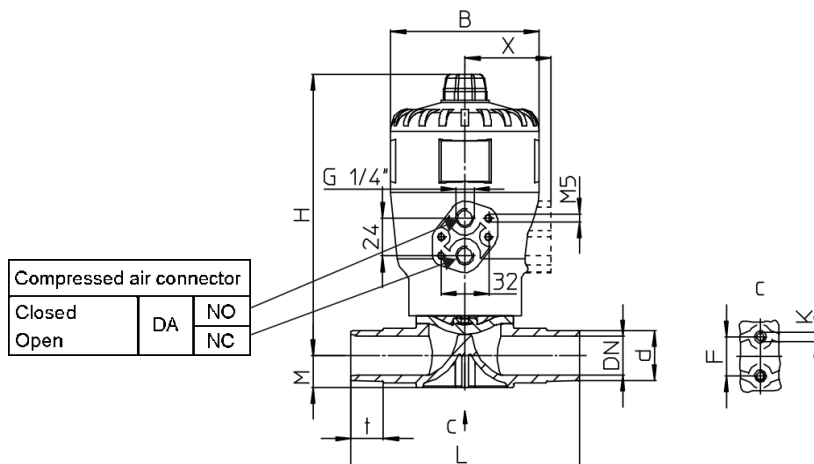
- Electrical position indicator
- Electropneumatic positioner
- 3/2 and 5/2 solenoid valve

This document does not constitute a guarantee, it is for initial information purposes only. The product range is continually upgraded, the designs and types therefore only reflect the state of the art at the time of printing.
Subject to technical modifications!

Diaphragm valve T4 with pneumatic actuating drive



Dimensions:



PVC-U / PP / PVDF

Connector type

PVC solvent spigot

PP / PVDF fusion spigot

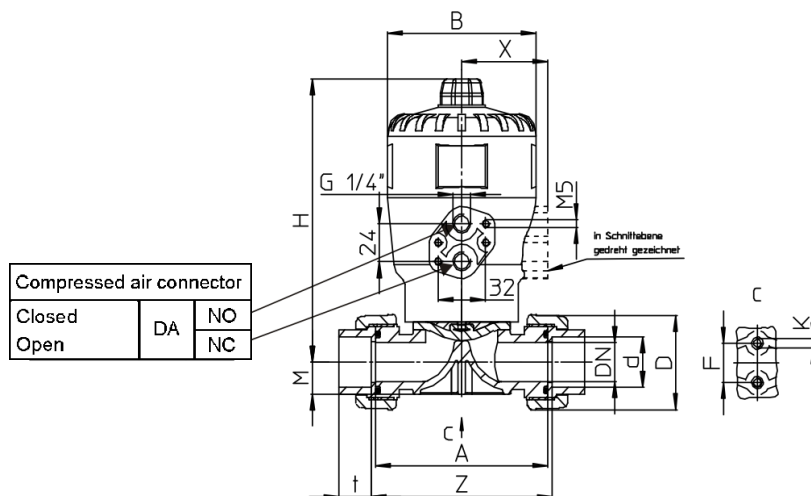
DN d	15		20		25	32	40	50
	20		25		32	40	50	63
F K L t _{SS} ¹ M _{PVC} M _{PP / PVDF}	25		25		25	45	45	45
	M6		M6		M6	M8	M8	M8
	124		144		154	174	194	224
	16		19		22	26	31	38
	17		17		21	33	33	40.5
	16.5		16.5		20	25.5	32	38.5
Drive	K52	K62	K62	K82	K82	K122		K123
B	63	80	80	100	100	160		160
H	126.5	148	148	265.5	265.5	278		282.5
X	44	52	52	60.5	60.5	87		87

Dimensions in mm

¹ SSP = Solvent spigot



Diaphragm valve T4 with pneumatic actuating drive



PVC-U / PP / PVDF

Connector type

PVC solvent socket / threaded socket

PE / PP / PVDF fusion socket

DN		15	20	25	32	40	50
d		20	25	32	40	50	63
PVC	G _{TS} ¹	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
	F	25	25	25	45	45	45
	K	M6	M6	M6	M8	M8	M8
	t _{SS} ²	16	19	22	26	31	38
	t _{FS} ³ PE	16	17.5	19.5	22	25	29
	A	90	108	116	174	154	184
	D	43	53	60	74	83	103
PP / PVDF	M	17	17	21	33	33	40.5
	Z	96	114	122	142	160	190
	Z _{FS} ³ PE	95	116	126	148	173	209
	t _{FS} ²	16	18	20	22	24.5	29
	A	90	108	116	174	154	184
Drive	B	63	80	80	100	100	160
	H	126.5	148	148	265.5	265.5	282.5
	X	44	52	52	60.5	60.5	87

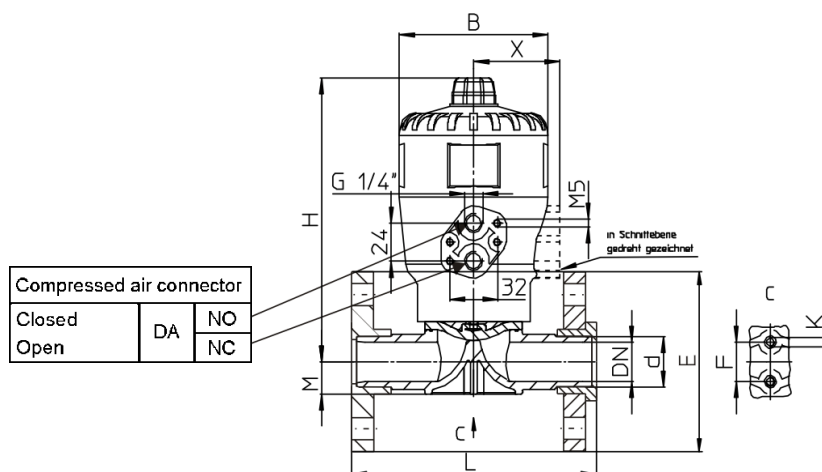
Dimensions in mm

¹ TSO = Threaded socket

³ FSO = Fusion socket

² SSO = Solvent socket


Diaphragm valve T4 with pneumatic actuating drive



PVC-U / PP / PVDF

Connector type

PVC backing flange / fix flange

PP backing flange with steel inlay / fix flange

DN		15		20		25	32	40	50
d		20		25		32	40	50	63
F		25		25		25	45	45	45
K		M6		M6		M6	M8	M8	M8
PVC	E _{BF} ¹	95		105		115	140	150	165
	E _{FF} ²	97		105		125	140	150	165
	M	17		17		21	33	33	40.5
	L _{BF} ¹ FF ²	130		150		160	180	200	230
PP / PVDF	E _{BF} ¹ DIN	95		108		115	140	151	165
	E _{BF} ¹ ANSI	95		102		114	130	133	162
	E [*] _{FF} ²	95		105		115	-	-	-
	M	16.5		16.5		20	25.5	32	38.5
	L _{BF} ¹	130		150		160	180	200	230
	L [*] _{FF} ²	130		150		160	-	-	-
Drive		K52	K62	K62	K82	K82	K122		K123
B		63	80	80	100	100	160		160
H		126.5	148	148	265.5	265.5	278		282.5
X		44	52	52	60.5	60.5	87		87

Dimensions in mm

¹ BF = Backing flange

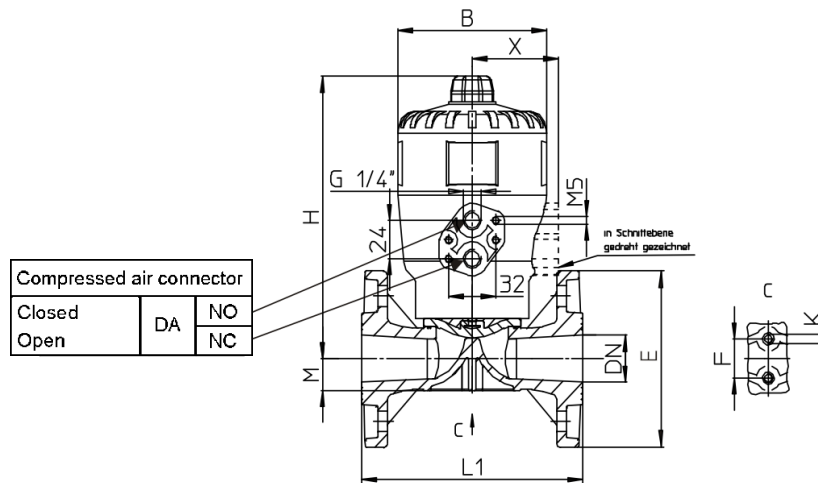
² FF = Fix flange

- = Currently not realised

* = Only for PP diaphragm valves



Diaphragm valve T4 with pneumatic actuating drive



PP / PVDF

Connector type

PP / PVDF fix flange

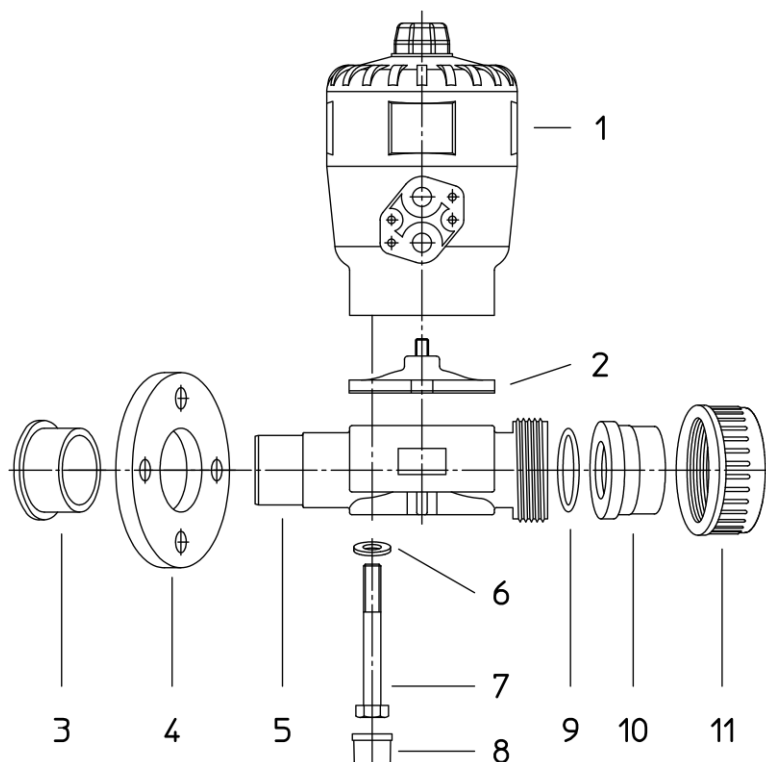
DN	32	40	50
d	40	50	63
F	45	45	45
K	M8	M8	M8
M	33	33	40.5
E	140	150	165
L1	180	200	230
Drive	K122		K123
B	160		160
H	278		282.5
X	87		87

Dimensions in mm

Diaphragm valve T4 with pneumatic actuating drive

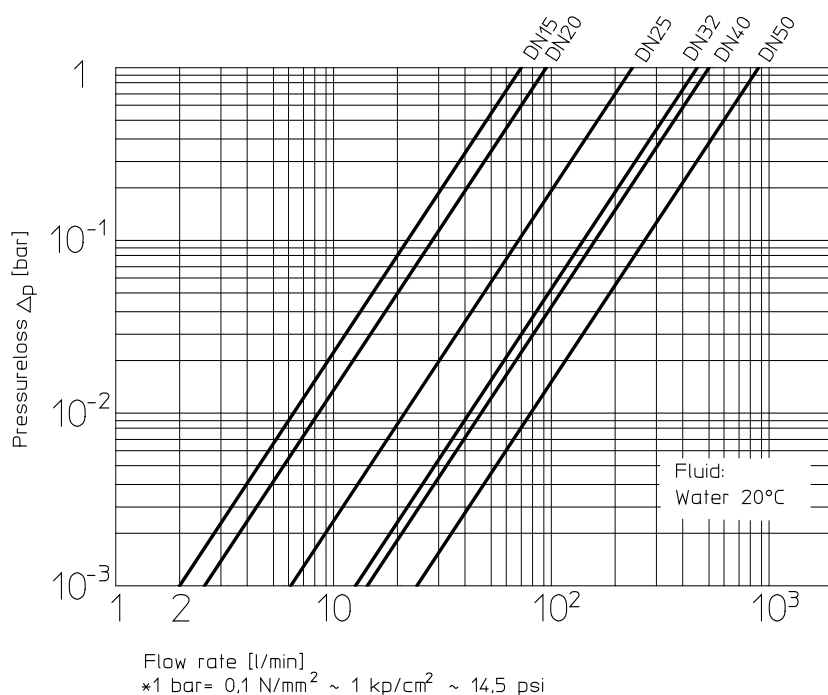
Exploded drawing:

- 01. Pneumatic actuating drive
- 02. Diaphragm
- 03. Flange adaptor
- 04. Flange
- 05. Lower part
- 06. Washer
- 07. Hexagon bolt
- 08. Cap
- 09. O-ring
- 10. Solvent socket
- 11. Union nut



Diagrams:

Pressure loss diagram



Diaphragm valve T4

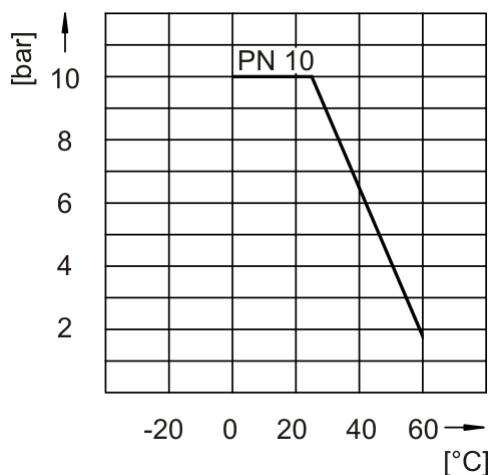
with pneumatic actuating drive



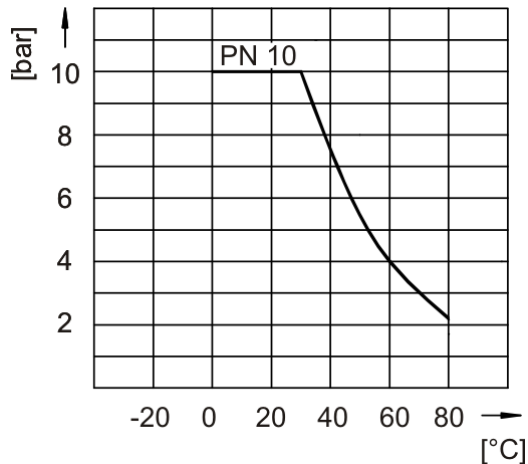
Cv value table

Pressure loss	DN15	DN20	DN25	DN32	DN40	DN50	DN65	DN80	DN100	DN125
1 bar	70 l/min	95 l/min	250 l/min	450 l/min	500 l/min	880 l/min	1.100 l/min	1.700 l/min	2.700 l/min	4.000 l/min

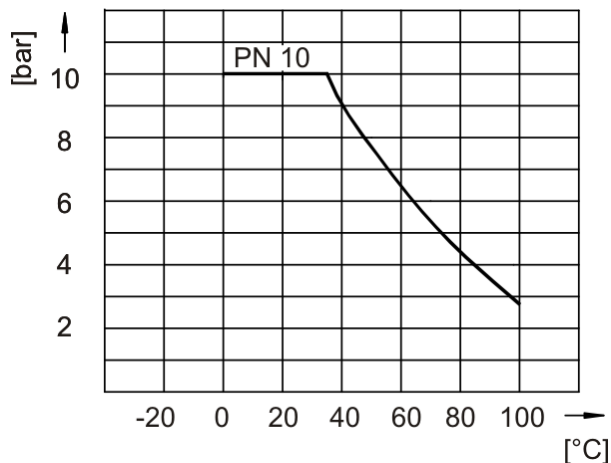
Pressure – Temperature diagram – PVC-U



Pressure – Temperature diagram - PP



Pressure – Temperature diagram - PVDF



Diaphragm valve T4

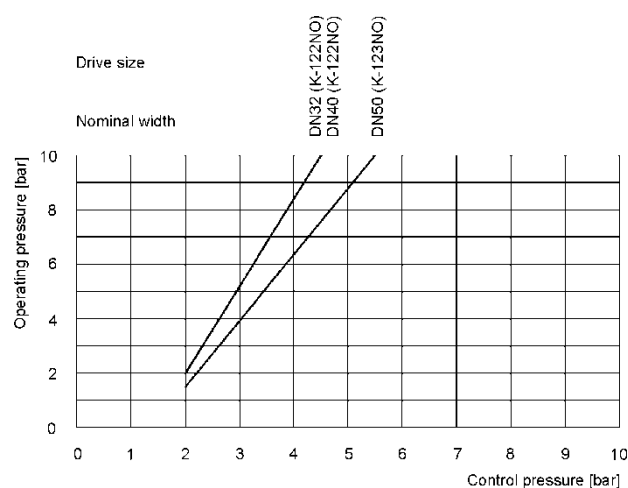
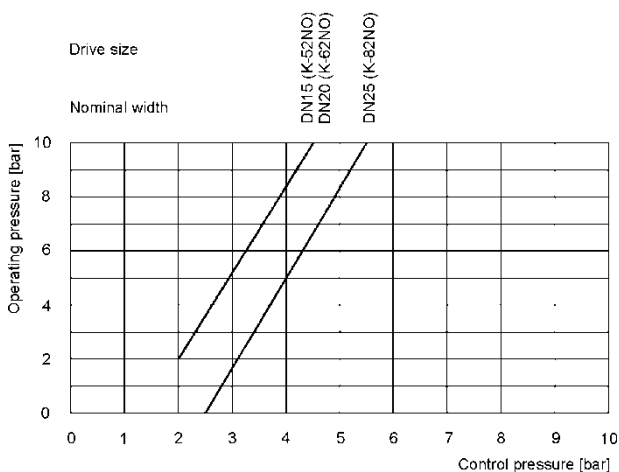
with pneumatic actuating drive

Control pressure technical data:

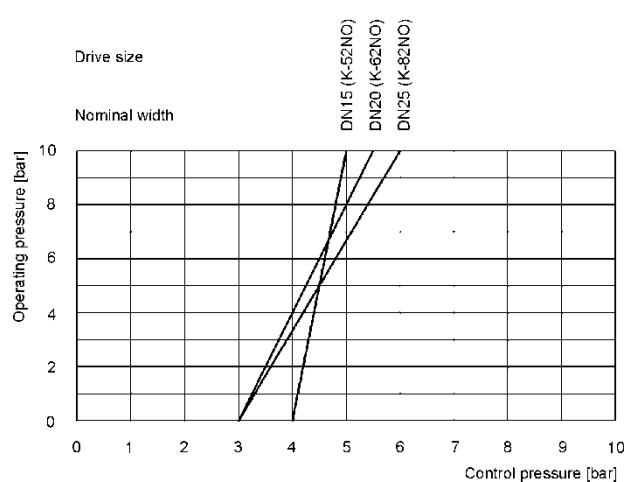
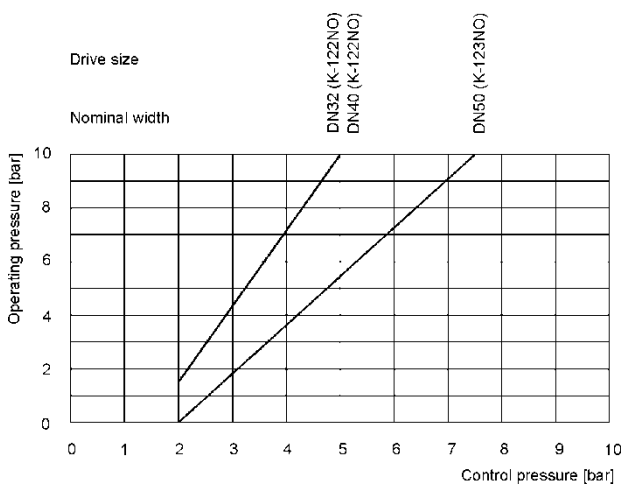
NC function (Spring force closing)

DN	d	Drive size	Control pressure bar	Max. operating pressure for seal material	
				EPDM / FPM	PTFE / EPDM
				bar	bar
15	20	K-52 NC	5.0 – 10	10	5
		K-62 NC	5.0 – 10	-	10
20	25	K-62 NC	5.5 – 10	10	5
		K-82 NC	5.0 – 10	-	10
25	32	K-82 NC	5.5 – 10	10	10
32	40	K-122 NC	5.5 – 10	10	10
40	50	K-122 NC	5.5 – 10	10	10
50	63	K-123 NC	5.5 – 10	10	10

NO function (spring force opening) and DA function (double-acting) EPDM/FPM diaphragm



function (spring force opening) and DA function (double-acting) PTFE diaphragm



Diaphragm valve T4 with pneumatic actuating drive

Accessories:

Electrical position indicator

Specifications

Body	: Polyamide
Cover:	: Polycarbonate
Connector	: PG11 union
Ambient temperature	: -10°C to +80°C
Voltage ranges	: 12-24 V AC/DC
	: 110 – 250 V AC/DC
Degree of protection	: IP65



Electropneumatic positioner

Specifications

Body	: Aluminum and plastic
Seals	: NBR / FKM
Medium	: Air or neutral gases filtered, oiled or unoled
Connector	: G 1/8"
Pressure range	: Max. 10 bar input pressure
Temperature	
▪ Medium	: 0°C to 60°C
▪ Environment	: 0°C to 50 °C
Setpoint	: 0 – 10 V
	: 0 – 20 mA
	: 4 – 20 mA
Degree of protection	: IP65
Voltage	: 24V
Following voltage failure	: Optionally, the position is held or the drive is vented



Diaphragm valve T4 with pneumatic actuating drive



Solenoid valve Namur

General

- With combined 5/2 and 3/2-way function
- Easy switchover from 5/2 to 3/2-way function through innovative turning technology
- As standard with emergency actuation



Specifications

Body	: Aluminum, black anodized
Seals	: NBR / PUR
Medium	: Air or neutral gases, filtered
Differential pressure	: 0 – 10 bar
Temperature range	: -25°C to 60°C
Degree of protection	: IP65
Voltage	: 24V DC 230V AC

